

REMARKS

Claims 1- 59 were originally filed in the parent application Ser. No. 09/071,764. In a Restriction Requirement, election was required to be made between claims directed to the following patentably distinct species of the claimed invention:

- I. Claims 1 - 22, 24, 32 and 57 - 59, drawn to methods and apparatus for using optical fiber sensors, classified in class 250, subclass 227.14.
- II. Claim 23, drawn to a method of using an acoustic sensor, classified in class 73, subclass 570.
- III. Claims 25 - 31, and 33 - 36, drawn to methods and apparatus using chemical sensors, classified in class 385, subclass 141.
- IV. Claims 37 - 51, drawn to methods and apparatus of supplying optical energy to a light actuated transducer, classified in class 359, subclass 143
- V. Claims 52 - 56, drawn to a method of generating electric power, classified in class 136, subclass 243.

In response to the Restriction requirement, Applicant elected to prosecute claims 25 - 31, and 33 - 36 from Group III, without traverse, in the parent application. In the present application, Applicant elects to prosecute claims from group I.

In a first divisional application Ser. No. 09/778,696 filed on February 6, 2001, applicant elected to prosecute claims 37 -51 from group IV. In a second divisional application Ser. No. 10/121,375 filed on 11 April 2002, applicant elected to prosecute claims 16-22, 24, 32 and 57-59 from group I. A new claim 60 was added in the second divisional

application. The second divisional application was subjected to a further restriction requirement requiring restriction to one of the following inventions:

- I. Claims 16-21 and 24 drawn to a downhole injection evaluation system, classified in class 250, subclass 227.14
- II. Claim 22, drawn to an injection well having at least one fiber optic cable, classified in class 166, subclass 252
- III. Claims 32 and 57-60 drawn to a method of monitoring a downhole parameter in a wellbore, classified in class 73, subclass 152.


In the second divisional application, claims 32 and 57-60 were selected for further prosecution.

In the present application, applicant elects to prosecute claims 16- 21 and 24, drawn to a downhole injection evaluation system, for further prosecution. Claims 1-15, 22, 23, and 25 - 59 have been canceled. Furthermore, claims 21 and 24 from the group chosen for prosecution have been canceled. This leaves claims 16-19, 21, and 24 pending in the present application. New claims 60-94 have been added. The material in the claims is discussed at pages 27-34 of the application with reference to Figure 5-8. No new matter has been added by the amendments. Consideration of the application as amended is respectfully requested.

The Commissioner is authorized to charge any fees for these amendments to **Deposit Account 02--0429 (014-12049-D3).**

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Respectfully submitted,



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